

**In the claims:**

All standing claims are reproduced below with status indication appropriately marked.

Claims 19, 22 - 24, 29 and 34 are currently amended.

Claims 1-18, 26 and 28 are canceled.

19. (Currently Amended) An Internet-enabled control system for monitoring and controlling home-automated-systems and appliances at a user's premise, comprising:  
a base station with Internet connection at the user's premise, the base station in communication with sensing and actuating subsystems ~~at~~ associated with individual ones of the home-automated systems and appliances via radio frequency technology;  
~~wherein all communication with sensing and actuating subsystems is done through~~  
a control unit comprising a wiring interface portion, ~~and an input-output section,~~ a RF section comprising a redundancy-based networking protocol, ~~coupled to~~ a microcontroller comprising control code, wherein the control unit is in communication with the base station via the RF section and in communication with the sensing and actuating subsystems via the wiring interface or the RF section;  
a first Internet-connected server, comprising a software-control module for enabling a user to monitor and control home automated systems and appliances, communicating over the Internet with the base station, the first Internet-connected server monitoring the sensing subsystems and providing actuating commands to the actuating subsystems through the base station;  
~~an interactive display at a second Internet-connected server providing a set of services to the user not related to control of the home automated systems and appliances;~~

and

~~an interactive control interface presentable on the interactive display by the second Internet-connected server, providing a control interface to the user, enabling the user to access settings, view conditions, and issue commands to the home automated systems and appliances over the Internet to the first server and hence to the base station and the systems and appliances themselves~~ such that the control unit produces control outputs for a particular home automated-system or appliance in response to input from sensing subsystems associated with the particular home automated-system or appliance and in response to other sensors associated with other home automated-systems or appliances as determined by the software-control module and the control code and wherein the redundancy-based networking protocol comprises a state wherein if one control unit is out of communication range with the base station another control unit may intercept communication on behalf of the out-of range control unit and retransmit to the out-of range control unit.

20. (Previously presented) The system of claim 19 wherein accessing the interactive control interface requires entry of a password.

21. (Previously presented) The system of claim 19 wherein accessing the interactive control interface requires verifying the identity of the user or an Internet appliance controlled by the user.

22. (Currently amended) The system of claim 19 further comprising an interactive display at a second Internet-connected server providing a set of services to the user not related to control of the home-automated systems and appliances; and  
an interactive control interface presentable on the interactive display by the second Internet-

connected server, providing a control interface to the user, enabling the user to access settings, view conditions, and issue commands to the home automated systems and appliances over the Internet to the first server and hence to the base station and the systems and appliances themselves wherein the interactive interface comprises a window opened in the interactive display provided by the second server, the window providing information fields and input fields for the user to read conditions at and to provide input to the systems and appliances.

23. (Currently amended) The system of claim ~~19~~ 22 wherein the set of services provided by the second server comprise one of banking services, search services, security exchange services, or personal data aggregation services.

24. (Currently amended) A method for remotely controlling home-automated-systems and appliances at a user's premise, comprising steps of:  
providing an interactive display ~~for monitoring and control of the systems and appliances at a first web site, comprising a software-control module for enabling a user to monitor and control home-automated-systems and appliances, dedicated to providing a set of services to the user unrelated to the monitoring and control services;~~  
authenticating the user at the web site to activate the interactive display; ~~and~~  
establishing Internet communication from the first web site to ~~a second web site dedicated to monitoring and controlling the systems and appliances through Internet communication with~~ a base station at the user's premise, the base station in communication with ~~the systems and appliances, wherein all communication with~~

~~the systems and appliances is done through a control unit comprising a wiring interface portion, and an input-output section, coupled to a microcontroller; thereby enabling the user to read conditions and to provide commands to the systems and appliances while connected to the first web site~~

sensing and actuating subsystems associated with individual ones of the home-automated-systems and appliances via radio frequency technology; and communicating with the sensing and actuating subsystems through a control unit comprising a wiring interface portion, a RF section comprising a redundancy-based networking protocol, an input-output section, and a microcontroller comprising control code, wherein the control unit is in communication with the base station via the RF section and in communication with the sensing and actuating subsystems via the wiring interface or the RF section; such that the control unit produces control outputs for a particular home-automated-system or appliance in response to input from sensing subsystems associated with the particular home automated-system or appliance and in response to other sensors associated with other home automated-systems or appliances as determined by the software-control module and the control code and wherein the redundancy-based networking protocol comprises a state wherein if one control unit is out of communication range with the base station another control unit may intercept communication on behalf of the out-of range control unit and retransmit to the out-of range control unit.

25. (Previously presented) The method of claim 24 wherein the authentication comprises a password.

26. (Cancelled) The method of claim 24 wherein the authentication is by a prearrangement with the second web site verifying the identity of the user or an Internet appliance controlled by the user.

27. (Previously presented) The method of claim 24 wherein the interactive display comprises a window providing information fields and input fields for the user to read conditions at and to provide input to the systems and appliances.

28.( Cancelled) The method of claim 24 wherein the set of services provided by the second server comprise one of banking services, search services, security exchange services, or personal data aggregation services.

29. (Currently amended) An internet-enabled control system for monitoring and controlling home-automated-systems and appliances at a user's premise, comprising:

an actuating subsystem;

a sensing subsystem;

a base station comprising a microcontroller, memory portion, communication port, and a RF

communicating section in communication with the sensing and the actuating

subsystems associated with individual ones of the home-automated systems and

appliances via radio frequency technology;

a first internet-connected server comprising a software-control module for enabling a user to

monitor and control home-automated-systems and appliances communicating with

the base station; and

~~at least one~~ a control unit comprising a microcontroller comprising control code, an input-output section, a memory portion, a wiring interface portion and a RF communicating section comprising a redundancy-based networking protocol wherein the control unit is in communication with the base station via the RF section and in communication with the sensing and actuating subsystems via the wiring interface or the RF section;

~~at least one~~ actuator; and

~~at least one~~ sensor; ~~wherein the base station receives control code and data via the communication port and communicates via the RF section to the at least one control unit such that each control unit communicates to the at least one actuator and to the at least one sensor in order that the home automated systems and appliances are controlled in a preset manner by the received control code and data, wherein all communication with the at least one actuator and the at least one sensor is done through the at least one control unit such that the control unit produces control outputs for a particular home automated-system or appliance in response to input from sensing subsystems associated with the particular home automated-system or appliance and in response to other sensors associated with other home automated-systems or appliances as determined by the software-control module and the control code and wherein the redundancy-based networking protocol comprises a state wherein if one control unit is out of communication range with the base station another control unit may intercept communication on behalf of the out-of range control unit and retransmit to the out-of range control unit.~~

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30. (Previously Presented) The system of claim 29 further comprising an interactive display in communication with said base station providing a set of services via said first Internet-connected server to said user to control said home-automated systems and appliances wherein said first Internet-connected server monitors each control unit and provides actuating commands to each control unit through the base station.

31. (Previously Presented) The system of claim 30 further comprising an interactive control interface presentable on the interactive display by said first Internet-connected server, providing a control interface to said user, enabling said user to access settings, view conditions, and issue commands via said base station RF communicating section to each said control unit.

32. (Previously presented) The system of claim 31 wherein said interactive interface further comprises a window opened in the interactive display wherein access to additional services comprising at least one of banking services, search services, security exchange services, purchasing services, repair services or personal data aggregation services is provided.

33. (Previously Presented) The system of claim 32 further comprising access to a second Internet-connected server wherein the second Internet-connected server provides access to at least one of said additional services.

34. (Currently amended) An Internet-enabled control system for monitoring and controlling home-automated-systems and appliances at a user's premise, comprising:  
a base station with Internet connection at the user's premise, the base station in

communication with sensing subsystems and actuating subsystems at individual ones of the home-automated systems and appliances via radio frequency technology;  
~~wherein all communication to the sensing subsystems and actuating subsystems is done through~~  
a control unit comprising a wiring interface portion, ~~and an input-output section, coupled to~~  
a microcontroller comprising control code, and a RF communicating section comprising a redundancy-based networking protocol wherein the control unit is in communication with the base station via the RF section and in communication with the sensing and actuating subsystems via the wiring interface or the RF section;  
first Internet-connected server communicating over the Internet with the base station, the first Internet-connected server monitoring the sensing subsystems and actuating subsystems and providing actuating commands to the actuating subsystems through the base station;  
an interactive display at the Internet-connected base station providing a set of services to the user related to the control and monitoring of the home-automated systems and appliances; and  
an interactive control interface presentable on the interactive display by the first Internet-connected server, providing a control interface to the user, enabling the user to access settings, view conditions, and issue commands to the home automated systems and appliances over the Internet to the base station and the systems and appliances themselves such that the control unit produces control outputs for a particular home automated-system or appliance in response to input from sensing subsystems associated with the particular home automated-system or appliance and



in response to other sensors associated with other home automated-systems or appliances as determined by the software-control module and the control code and wherein the redundancy-based networking protocol comprises a state wherein if one control unit is out of communication range with the base station another control unit may intercept communication on behalf of the out-of range control unit and retransmit to the out-of range control unit.

35. (Previously Presented) The system of Claim 34 wherein said interactive display is hosted by a second Internet-connected server providing a set of services to the user related to control of the home-automated systems and appliances; and an interactive control interface presentable on the interactive display by the second Internet-connected server, providing a control interface to the user, enabling the user to access settings, view conditions, and issue commands to the home automated systems and appliances over the Internet to the first Internet-connected server and hence to the base station and the systems and appliances themselves.

36. (Previously Presented) The system of Claim 35 wherein said interactive display is hosted at a second Internet-connected server providing a set of services to the user unrelated to control of the home-automated systems and appliances; and an interactive control interface presentable on the interactive display by the second Internet-connected server, providing a control interface to the user, enabling the user to access settings, view conditions, and issue commands to the home automated systems and appliances over the Internet to the first Internet-connected server and hence to the base station and the systems and appliances themselves.